Tk. Docket No.: 81607-1210

CLAIMS

1.	A wireless communication network adapted for use	in an automated
monitoring sy	ystem for monitoring and controlling a plurality of ren	note devices via a
host compute	er connected to a wide area network, the wireless comm	unication network
comprising:		

a plurality of wireless transceivers having unique identifiers, each of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier; and

a site controller in communication with at least one of the plurality wireless transceivers, the site controller configured to receive the original data messages and the repeated data messages, identify the remote device associated with the corresponding sensor data signal, and provide information related to the sensor data signal to the wide area network for delivery to the host computer.

2. The wireless communication network of claim 1, further comprising a plurality of repeaters having unique identifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.

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3. The wireless communication network of claim 1, wherein the site
controller is further configured to provide a command message to one of the plurality of
wireless transceivers and each of the plurality of wireless transceivers are further
configured to transmit, in response to the command message, the original data message,
wherein the original data message corresponds to the command message.
4. The wireless communication network of claim 1, wherein the predefined
communication protocol comprises a data packet comprising:
a receiver address identifying the receiver of the data packet;
a sender address identifying the sender of the data packet; and
a command indicator specifying a predefined command code.
5. The wireless communication network of claim 1, wherein the plurality
of wireless transceivers are further configured to receive signals via Bluetooth
technology.
6. The wireless communication network of claim 1, wherein the plurality
of wireless transceivers are further configured to receive signals via IEEE standard
802.11(b).
7. The wireless communication network of claim 4, wherein the data
packet further comprises:
a packet length indicator which indicates a total number of bytes in the current
packet;
a total packet indicator which indicates the total number of packets in the
current message; and

a current packet indicator which identifies the current packet; and

a message number identifying the current message.

 8. A wireless communication network adapted for use in an automated monitoring system for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless communication means having unique identifiers, each of the plurality of wireless communication means configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

a means for receiving each of the original data messages and the repeated data messages;

a means for identifying, for each received message, the remote device associated with the corresponding sensor data signal; and

a means for providing information related to the sensor data signal to the wide area network for delivery to the host computer.

9. The wireless communication network of claim 8, further comprising a plurality of repeating means having unique identifiers, each of the plurality of repeating means in communication with at least one of the plurality of wireless communication means and comprising a means for receiving the original data message transmitted by the at least one of the plurality of wireless transceivers and a means for transmitting a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.

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	1	10. The wireless communication network of claim 8, further comprising a
	2	means for providing a command message to one of the plurality of wireless
	3	communication means, wherein each of the wireless communication means further
	4	comprise a means for transmitting, in response to the command message, the original
	5	data message, wherein the original data message corresponds to the command message.
	1	11. The wireless communication network of claim 8, wherein the predefined
	2	communication protocol comprises a data packet comprising:
	3	a means for identifying the receiver of the data packet;
	4	a means for identifying the sender of the data packet; and
	5	a command means for specifying a predefined command code.
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	1	12. The wireless communication network of claim 11, wherein the data
The Tile of the party land deep the party of	2	packet further comprises:
	3	a means for indicating a total number of bytes in the current packet;
	4	a means for indicating the total number of packets in the current message;
	5	a means for identifying the current packet; and
Derth gar garage and garage the state than the state that the state the state that the state that the state that the state tha	6	a means for identifying the current message.
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A wireless communication network for monitoring and controlling a 13. plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless transceivers having unique identifiers, such of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

wherein at least one of the plurality of wireless transceivers is further configured to provide the original data messages and the repeated data messages to a site controller connected to the wide area network.

- The wireless communication network of claim 13, further comprising a 14. plurality of repeaters having unique dentifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.
- 15. The wire less communication network of claim 13, wherein the at least one of the plurality of wireless transceivers is further configured to receive a command message for one of the plurality of wireless transceivers from the site controller and transmit the command message to the one of the plurality of wireless transceivers.

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	1	16. The wireless communication network of claim 13, wherein the
	2	predefined communication protocol comprises a data packet comprising:
	3	a receiver address identifying the receiver of the data packet;
	4	a sender address identifying the sender of the data packet; and
	5	a command indicator specifying a predefined command code.
	1	17. The wireless communication network of claim 13, wherein the plurality
	2	of wireless transceivers are further configured to receive signals via Bluetooth
	3	technology.
	1	18. The wireless communication network of claim 13, wherein the plurality
r i	2	of wireless transceivers are further configured to receive signals via IEEE standard
green, green, green, green green, green green, green green, green, green, green, green, green, green, green, g 1. H. L.,	3	802.11(b).
	1	19. The wireless communication network of claim 16, wherein the data
	2	packet further comprises:
	3	a packet length indicator which indicates a total number of bytes in the current
	4	packet;
	5	a total packet indicater which indicates the total number of packets in the
	6	current message; and
	7	a current packet indicator which identifies the current packet; and
	8	a message number identifying the current message.

20. A wireless communication network for monitoring and controlling a plurality of remote devices via a host computer connected to a wide area network, the wireless communication network comprising:

a plurality of wireless transceivers having unique identifiers, each of the plurality of wireless transceivers configured to receive a sensor data signal from one of the plurality of remote devices and transmit an original data message using a predefined wireless communication protocol, the original data message comprising the corresponding unique identifier and sensor data signal, and further configured to receive the original data message transmitted by one of the other wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal and the corresponding unique identifier;

wherein at least one of the plurality of wireless transceivers is further configured to provide the original data messages and the repeated data messages to a primary wireless communication network associated with an automated monitoring system.

- 21. The wireless communication network of claim 20, further comprising a plurality of repeaters having unique identifiers, each of the plurality of repeaters in communication with at least one of the plurality of wireless transceivers and configured to receive the original data message transmitted by the at least one of the plurality of wireless transceivers and transmit a repeated data message using the predefined communication protocol, the repeated data message including the sensor data signal from the original data message and the unique identifier corresponding to the repeater.
- 22. The vireless communication network of claim 20, wherein the at least one of the plurality of wireless transceivers is further configured to receive a command message for one of the plurality of wireless transceivers from the primary wireless communication network and transmit the command message to the one of the plurality of wireless transceivers.

	1	23. The wireless communication network of claim 20, wherein the
	2	predefined communication protocol comprises a data packet comprising:
	3	a receiver address identifying the receiver of the data packet;
	4	a sender address identifying the sender of the data packet; and
	5 .	a command indicator specifying a predefined command code.
	1	24. The wireless communication network of claim 20, wherein the plurality
	2	of wireless transceivers are further configured to receive signals via Bluetooth
	3	technology.
	1	25. The wireless communication network of claim 20, wherein the plurality
a=2	2	of wireless transceivers are further configured to receive signals via IEEE standard
	3	802.11(b).
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[]]	2	packet further comprises:
(1)	3	a packet length indigator which indicates a total number of bytes in the current
	4	packet;
the state of the s	5	a total packet indicator which indicates the total number of packets in the
([) (*)	6	current message; and
be# hsi	7	a current packet indicator which identifies the current packet; and
	8	a message number identifying the current message.